

CLAIMS

1. A hydraulic driving device for an operating machine, comprising:
an actuator(2);
5 a pump(3) to discharge a hydraulic fluid by driving a motor therein;
an oil passage(4a) to introduce the hydraulic fluid discharged from the pump to the actuator;
a hydraulic control valve(6) provided in the oil passage to control
10 an oil pressure of the hydraulic fluid that is introduced to the actuator;
an open and closed valve(5) to control opening and closing of the oil passage between the pump and the hydraulic control valve;
an operating device(7) with which a driver operates the actuator;
and
15 a controller(8) adapted to control an opening of the hydraulic control valve and the open and closed valve in accordance with an output value of the operating device, wherein:
the controller is adapted to:
stop the pump, and close the open and closed valve and the
20 hydraulic control valve respectively when the output value of the operating device is in a first predetermined range(E1,E2);
start the pump and open the open and closed valve when the output value goes beyond the first predetermined range; and
open the hydraulic control valve to supply the hydraulic fluid to
25 the actuator when the output value goes beyond a second range(E3,E4);
greater than the first predetermined range.
2. The hydraulic driving device according to claim 1, wherein:
the first predetermined range is set to include the output value
30 produced when the operating device is in a neutral position; and

the second range is set to include a value smaller than a minimum value of the first predetermined range and a value greater than a maximum value of the first predetermined range.